

Docket No.: I4303.0075  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of:  
Stefan J. Bitterlich et al.

Allowed: January 30, 2007

Application No.: 10/040,727

Confirmation No.: 2597

Filed: December 28, 2001

Art Unit: 2611

For: CHANNEL CODEC PROCESSOR  
CONFIGURABLE FOR MULTIPLE  
WIRELESS COMMUNICATIONS  
STANDARDS

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Examiner: P. M. Phu

**REQUEST FOR SUPPLEMENTAL NOTICE OF ALLOWANCE**

Attn: MS Issue Fee  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Applicants received a Notice of Allowance dated January 30, 2007 in the above-identified patent application.

Two Information Disclosure Statements dated March 8, 2002 and July 25, 2005, respectively, were filed by Applicants. During final review of the allowed application, Applicants note that the Information Disclosure Statements of March 8, 2002 and July 25, 2005 were not acknowledged.

Applicants respectfully request that the Information Disclosure Statements dated March 8, 2002 and July 25, 2005 be acknowledged and considered for the above-referenced patent application, before payment of the issue fee. A copy of the March 8, 2002 Information Disclosure Statement, SB 0/8 (Form PTO-1449), (plus stamped

postcard indicating receipt by the U.S. Patent Office) are enclosed for the Office's convenience.

Also, a copy of the July 25, 2005 Information Disclosure Statement, Form PTO-1449), plus a confirmation of delivery and receipt to the U.S. Patent Office from the United States Postal Service are enclosed for the Office's convenience.

Please charge any credits or deficiencies to our Deposit Account No. 50-2215.

Dated: February 28, 2007

Respectfully submitted,

By Laura C. Brutman  
Laura C. Brutman

Registration No.: 38,395  
DICKSTEIN SHAPIRO LLP  
1177 Avenue of the Americas  
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New York, New York 10036-2714  
(212) 277-6500  
Attorney for Applicant

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**Atty Docket No.:** 04303/100M932-US1

**Inventor:** Stefan J. Bitterlich et al.

**Appln:** 10/040,727-Conf. **Filed:** Dec. 28, 2001

**Title:** CHANNEL CODEC PROCESSOR CONFIGURABLE  
FOR MULTIPLE WIRELESS COMMUNICATIONS  
STANDARDS

**Documents:**

IDS (Citation) by Applicant (4 References) (1 page)

Information Disclosure Statement (2 pages)

Certificate of Express Mailing (1 sheet)

EV 432860055-US

**Via:** Express Mail; Airbill No.

**Sender Initials:** LCB/lh **Date:** July 25, 2005

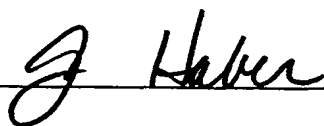
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## Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. **EV 432860055 US** in an envelope addressed to:

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Alexandria, VA 22313-1450

on July 25, 2005  
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Signature

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IDS (Citation) by Applicant (4 References) (1 page)  
Information Disclosure Statement (2 pages)  
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Dated: \_\_\_\_\_

Docket No.: 04303/100M932-US1  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Stefan J. Bitterlich et al.

Application No.: 10/040,727

Confirmation No.: 2597

Filed: December 28, 2001

Art Unit: 2631

For: CHANNEL CODEC PROCESSOR  
CONFIGURABLE FOR MULTIPLE  
WIRELESS COMMUNICATIONS  
STANDARDS

Examiner: P. M. Phu

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

A copy of each document on the PTO/SB/08 is attached.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as

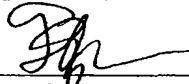
defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed documents.

The Commissioner is authorized to charge any deficiency of up to \$300.00 or credit any excess in this fee to Deposit Account No. 04-0100.

Dated: July 25, 2005

Respectfully submitted,

By  <sup>Lynn Bratman</sup>  
(53,970)  
Laura C. Brutman

Registration No.: 38,395

DARBY & DARBY P.C.

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New York, New York 10150-5257

(212) 527-7700

(212) 527-7701 (Fax)

Attorneys/Agents For Applicant

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO			<b>Complete If Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>			Application Number	10/040,727-Conf. #2597	
			Filing Date	December 28, 2001	
			First Named Inventor	Stefan J. Bitterlich	
			Art Unit	2631	
			Examiner Name	P. M. Phu	
Sheet	1	of	1	Attorney Docket Number	04303/100M932-US1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-5,748,650	05-05-1998	Blaker et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	Phillips, L., et al.; "A Baseband IC for 3G UMTS Communications"; PROC. OF VEHICULAR TECHNOLOGY CONFERENCE, Amsterdam, Netherlands, vol. 3, 19 September 1999, pages 1521-1524.	
	CB	Verbauwheide, Ingrid, et al.; "Low Power DSP's for Wireless Communications"; PROC. OF INTERNATIONAL SYMPOSIUM ON LOW POWER ELECTRONICS AND DESIGN ISLPED, Rapallo, Italy, 26 July 2000, pages 303-310.	
	CC	Weinszlehr, Dirk, et al.; "KISS-16V2: A One-Chip ASIC DSP Solution for GSM"; IEEE JOURNAL OF SOLID-STATE CIRCUITS, vol. 27, No. 7, July 1992, pages 1057-1065.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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Express Mail No.: EL 452 482 471 US

Date Mailed: March 8, 2002

Serial Number: 10/040,727

Filing Date: December 28, 2001

Inventor: Bitterlich et al.

For: **CHANNEL CODEC PROCESSOR CONFIGURABLE FOR MULTIPLE WIRELESS  
COMMUNICATIONS STANDARD**

**Enclosed:**

- (✓) Information Disclosure Statement
- (✓) PTO-1449 w/cited references
- (✓) Return receipt postcard



File No. 9824-0077-999

Sender: FEM/WHL/ab

Express Mail No.: EL 452 482 471 US

Date Mailed: March 8, 2002

Serial Number: 10/040,727

Filing Date: December 28, 2001

Inventor: Bitterlich et al.

For: **CHANNEL CODEC PROCESSOR CONFIGURABLE FOR MULTIPLE WIRELESS COMMUNICATIONS STANDARD**

***Enclosed:***

- (✓) Information Disclosure Statement
- (✓) PTO-1449 w/cited references
- (✓) Return receipt postcard

File No. 9824-0077-999

Sender: FEM/WHI/ab

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application of: Bitterlich et al.

Serial No.: 10/040,727

Group Art Unit: 2643

Filed: December 28, 2001

Examiner: To be assigned

For: CHANNEL CODEC PROCESSOR  
CONFIGURABLE FOR MULTIPLE  
WIRELESS COMMUNICATIONS  
STANDARD

Attorney Docket No.: 9824-0077-999

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure provisions of 37 C.F.R. §1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the application.

1. Enclosures accompanying this Information Disclosure Statement are:

- 1a. ☒ A list of all patents, publications, applications, or other information submitted for consideration by the office.
- 1b. A legible copy of :
  - ☒ Each U.S. patent application publication and U.S. and foreign patent;
  - ☒ Each publication or that portion which caused it to be listed on the PTO-1449;
  - ☐ For each cited pending U.S. application, the application specification including the claims, and any drawing of the application, or portion of the application which caused it to be listed on the PTO-1449 including any claims directed to that portion;
  - ☐ all other information or portion which caused it to be listed on the PTO-1449.
- 1c. ☐ An English language copy of search report(s) from a counterpart foreign application or PCT International Search Report.

- 1d. ☐ Explanations of relevancy (ATTACHMENT 1(d), hereto) or English language abstracts of the non-English language publications.
2. ☒ This Information Disclosure Statement is filed under 37 C.F.R. §1.97(b):
- ☐ Within three months of the filing date of a national application other than a continued prosecution application under §1.53(d);
  - ☐ Within three months of the date of entry of the national stage as set forth in §1.491 in an international application;
  - ☒ Before the mailing of the first Office action on the merits;
  - ☐ Before the mailing of a first Office action after the filing of a request for continued examination under §1.114.
3. ☐ This Information Disclosure Statement is filed under 37 C.F.R. §1.97(c) after the period specified in 37 C.F.R. §1.97(b), but before the mailing date of any of a final action under 37 C.F.R. §1.113, a notice of allowance under 37 C.F.R. §1.311 or an action that otherwise closes prosecution in the application.

*(Check either Item 3a or 3b)*

- 3a. ☐ The Certification Statement in Item 5 below is applicable. Accordingly, no fee is required.
- 3b. ☐ The \$180.00 fee set forth in 37 C.F.R. §1.17(p) in accordance with 37 C.F.R. §1.97(c) is:
- ☐ enclosed
  - ☐ to be charged to Pennie & Edmonds LLP Deposit Account No. 16-1150.

*(Item 3b to be checked if any reference known for more than 3 months)*

4. ☐ This Information Disclosure Statement is filed under 37 C.F.R. §1.97(d) after the period specified in 37 C.F.R. §1.97(c), but on or before the date of payment of the issue fee.

The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is:

- ☐ enclosed.
- ☐ to be charged to Pennie & Edmonds LLP Deposit Account No. 16-1150.

The Certification Statement in Item 5 below is applicable.

5. ☐ Certification Statement *(applicable if Item 3a or Item 4 is checked)*

*(Check either Item 5a or 5b)*

- 5a. ☐ In accordance with 37 C.F.R. §1.97(e)(1), it is certified that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

- 5b. ☐ In accordance with 37 C.F.R. §1.97(e)(2), it is certified that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the undersigned after making reasonable inquiry, was known by any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
6. ☐ This application is a continuation application under 37 C.F.R. §1.60 or §1.53(b) or (d).

*(Check appropriate Items 6a, 6b and/or 6c)*

- 6a. ☐ A Petition to Withdraw from issue under 37 C.F.R. §1.313(b)(5) is concurrently filed herewith.
- 6b. ☐ Copies of publications listed on Form PTO-1449 from prior application Serial No. \_\_, filed on \_\_, of which this application claims priority under 35 U.S.C. §120, are not being submitted pursuant to 37 C.F.R. §1.98(d).
- 6c. ☐ Copies of the publications listed on Form PTO-1449 were not previously cited in prior application Serial No. \_\_, filed on \_\_, and are provided herewith.
7. ☐ This is a Supplemental Information Disclosure Statement. *(Check either Item 7a or 7b)*
- 7a. ☐ This Supplemental Information Disclosure Statement under 37 C.F.R. §1.97(f) supplements the Information Disclosure Statement filed on \_\_. A bona fide attempt was made to comply with 37 C.F.R. §1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental Information Disclosure Statement can be considered as if properly filed on \_\_.
- 7b. ☐ This Supplemental Information Disclosure Statement is timely filed within one (1) month of a PTO Notice under 37 C.F.R. §1.97(i).
8. ☐ In accordance with 37 C.F.R. §1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:

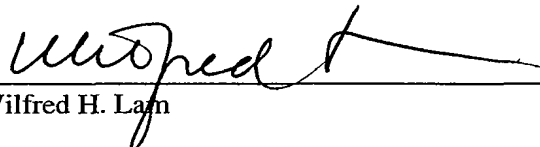
*( Check Item 8a, 8b, or 8c)*

- 8a. ☐ satisfied because all non-English language publications were cited on the enclosed English language copy of the PCT International Search Report or the search report from a counterpart foreign application indicating the degree of relevance found by the foreign office.
- 8b. ☐ set forth in the application.
- 8c. ☐ enclosed as an attachment hereto.
9. ☒ The Commissioner is authorized to charge any additional fee required or credit any overpayment for this Information Disclosure Statement and/or Petition to Pennie & Edmonds LLP Deposit Account No. 16-1150.

10. ☒ No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than a search report of a foreign counterpart application or PCT International Search Report if submitted herewith). 37 C.F.R. §§1.97(g) and (h).

Respectfully submitted,

Date March 8, 2002

  
\_\_\_\_\_  
Wilfred H. Lam 41,923  
(Reg. No.)

For Francis E. Morris, Reg. No. 24,615  
PENNIE & EDMONDS LLP  
3300 Hillview Avenue  
Palo Alto, California 94304  
(650) 493 - 4935

## LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.

9824-077-999

APPLICATION NO.

10/040,727

APPLICANT

Bitterlich et al.

FILING DATE

December 28, 2001

GROUP

2643

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,181,209	01/19/93	Hagenauer et al.			
	AB	5,406,570	04/11/95	Berrou et al.			
	AC	5,446,747	08/29/95	Berrou			
	AD	5,485,486	01/16/96	Gilhousen et al.			
	AE	5,513,176	08/30/96	Dean et al.			
	AF	5,519,761	05/21/96	Gilhousen			
	AG	5,533,011	07/02/96	Dean et al.			
	AH	5,537,444	07/16/96	Nill et al.			
	AI	5,559,865	09/24/96	Gilhousen			
	AJ	5,563,897	10/08/96	Pyndiah et al.			
	AK	5,594,718	01/14/97	Weaver, Jr. et al.			
	AL	5,603,096	02/11/97	Gilhousen et al.			
	AM	5,621,752	04/15/97	Antonio et al.			
	AN	5,625,876	04/29/97	Gilhousen et al.			
	AO	5,657,420	08/12/97	Jacobs et al.			
	AP	5,680,395	10/21/97	Weaver et al.			
	AQ	5,691,974	11/25/97	Zehavi et al.			
	AR	5,697,055	12/09/97	Gilhousen et al.			
	AS	5,715,236	02/03/98	Gilhousen et al.			
	AT	5,721,745	02/24/98	Hladik et al.			
	AU	5,721,746	02/24/98	Hladik et al.			
	AV	5,729,560	03/17/98	Hagenauer et al.			
	AW	5,734,962	03/31/98	Hladik et al.			
	AX	5,751,761	05/12/98	Gilhousen			
	AY	5,761,248	07/02/98	Hagenauer et al.			
	AZ	5,778,338	07/07/98	Jacobs et al.			
	BA	5,812,938	09/22/98	Gilhousen et al.			
	BB	5,822,318	10/13/98	Tiedemann, Jr. et al.			
	BC	5,841,806	11/24/98	Gilhousen et al.			
	BD	5,848,063	12/08/98	Weaver, Jr. et al.			
	BE	5,859,612	01/12/99	Gilhousen			
	BF	5,864,760	01/26/99	Gilhousen et al.			

	BG	5,917,812	01/29/99	Antonio et al.			
	BH	5,933,787	08/03/99	Gilhousen et al.			
	BI	5,943,361	08/24/99	Gilhousen et al.			
	BJ	5,970,413	10/19/99	Gilhousen			
	BK	6,014,411	01/11/00	Wang			
	BL	6,081,229	06/27/00	Soliman et al.			
	BM	6,085,349	07/04/00	Stein			
	BN	6,111,865	08/29/00	Butler et al.			
	BO	6,141,781	10/31/00	Mueller			
	BP	6,157,668	12/05/00	Gilhousen et al.			
	BQ	6,185,246	02/06/01	Gilhousen			
	BR	6,205,190	03/20/01	Antonio et al.			
	BS	6,239,748	05/29/01	Gilhousen			
	BT	6,304,612	10/16/01	Baggen et al.			
	BU	2001/0008837	07/19/01	Takahashi			
	BV	2001/0009850	07/26/01	Kushige			
	BW	2001/0013854	08/16/01	Ogoro			
	BX	2001/0018735	08/30/01	Murakami et al.			
	BY	2001/0022787	09/20/01	Mchale			
	BZ	2001/0023395	09/20/01	SU et al.			
	CA	2001/0024173	09/27/01	Katz			
	CB	2001/0024433	09/27/01	Vanttinen			
	CC	2001/0025242	09/27/01	Joncour			
	CD	2001/0027544	10/04/01	Joncour			
	CE	2001/0038663	11/08/01	Medlock			
	CF	2001/0041536	11/15/01	Hasegawa			
	CG	2001/0046211	11/29/01	Maruwaka et al.			
	CH	2001/0047427	11/29/01	Lansio et al.			
	CI	2001/0048713	12/06/01	Medlock et al.			
	CJ	2001/0051506	12/13/01	Riikonen			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	CK	TELECOMMUNICATIONS AND MISSION OPERATIONS DIRECTORATE - DSN Technology Program, "Communications System Analysis: Turbo Codes," <a href="http://www331.jpl.nasa.gov/public/TurboForce.GIF">http://www331.jpl.nasa.gov/public/TurboForce.GIF</a> ; Date Accessed: December 27, 2001; pp 1.

EXAMINER

DATE CONSIDERED



\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with **MPEP 609**; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.